

IN THE CLAIMS

Claims 1 - 16 (**CANCELLED**).

17. (**CURRENTLY AMENDED**) A system for cellular communications comprising:
a plurality of service cells, each service cell having an associated base station;
one or more handheld wireless communications devices having at least one directional
patch antenna; and
5 wherein the plurality of service cells are coordinated to provide communications services
to the one or more handheld wireless communications devices when each device changes the
orientation of its associated directional antenna.

Claims 18-19 (**CANCELLED**).

20. (**ORIGINAL**) The system for cellular communications of claim 17 wherein each
handheld wireless communications device further comprises:
a transmit patch antenna that is used to transmit signals; and
a receive patch antenna that is used to receive signals.

21. (**ORIGINAL**) The system for cellular communications of claim 17 wherein each
handheld wireless communications device further comprises:
a patch antenna that is used to transmit signals; and
a monopole antenna that is used to receive signals.

22. (**PREVIOUSLY PRESENTED**) The system for cellular communications of
claim 17 further comprising a call routing and call mapping system coupled to each service cell,
the call routing and call mapping system allocating allocating channel bandwidth between each
service cell to accommodate a change in orientation of the user.

23. **(PREVIOUSLY PRESENTED)** A method for providing cellular communications comprising:

determining the location of a user having a directional wireless device;
allocating call resources at one or more adjacent cells; and
setting up a call channel with the user.

24. **(PREVIOUSLY PRESENTED)** The method of claim 23 wherein setting up the call channel with the user is performed in parallel with the other steps.

25. **(PREVIOUSLY PRESENTED)** The method of claim 23 further comprising:
determining whether a change in orientation of the user is occurring; and
handing over the user to an optimal cell.

26. **(PREVIOUSLY PRESENTED)** The method of claim 25 wherein determining whether the change in orientation of the user is occurring comprises monitoring the signal strength of the directional wireless device at two or more base stations.

27. **(PREVIOUSLY PRESENTED)** The method of claim 25 wherein handing over the user to an optimal cell comprises handing over the user to a cell which the user is turning the directional wireless device towards.

28. **(CURRENTLY AMENDED)** The method of claim 25 wherein determining whether the change in orientation of the user is occurring comprises monitoring ~~[[the]]~~ a signal strength of the directional wireless device at the directional wireless device.

29. **(PREVIOUSLY PRESENTED)** The method of claim 28 wherein handing over the user to the optimal cell comprises:

transmitting a first signal from the directional wireless device to a first base station; and
receiving a second signal at the directional wireless device from a second base station.

30. **(PREVIOUSLY PRESENTED)** The method of claim 28 wherein handing over the user to the optimal cell comprises:

transmitting new call channel data to the wireless device from a first base station; and

changing the transmission characteristics at the directional wireless device to allow a

5 transmitted signal from the directional wireless device to be received at a second base station.

31. **(PREVIOUSLY PRESENTED)** A method for providing cellular communications comprising:

determining an orientation of a user having a directional wireless device;

establishing a call channel with the directional wireless device from a first base station;

5 determining a change in orientation of the directional wireless device; and

setting up a new call channel with the user and a second base station.

32. **(PREVIOUSLY PRESENTED)** The method of claim 31 wherein determining the orientation of the user having the directional wireless device comprises determining which of two or more base stations should serve the directional wireless device.

33. **(PREVIOUSLY PRESENTED)** The method of claim 31 wherein determining the orientation of the user having the directional wireless device comprises determining which of two or more base stations is receiving the greatest magnitude of field strength from the directional wireless device.

34. **(PREVIOUSLY PRESENTED)** The method of claim 31 wherein determining the orientation of the user having the directional wireless device comprises determining the orientation of the user by triangulation.

35. **(PREVIOUSLY PRESENTED)** The method of claim 31 wherein determining the change in orientation of the directional wireless device comprises monitoring a signal strength of the directional wireless device at two or more base stations.

36. **(PREVIOUSLY PRESENTED)** The method of claim 31 wherein setting up the new call channel with the user and the second base station comprises assigning different transmission and reception characteristics for the new call channel.

37. **(NEW)** The method of claim 23 wherein allocating call resources at one or more adjacent cells comprises allocating call resources at each cell encircling the user.

38. **(NEW)** The method of claim 25 wherein handing over the user to an optimal cell comprises handing over the user to a cell from a set of cells that encircle the user and that each have allocated call resources awaiting the handoff.